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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/084,848	02/25/2002	Shusaku Kido	NEC IPS 2364	8325
7590 ' 10/07/2003			EXAMINER	
Norman P. Soloway HAYES, SOLOWAY, HENNESSEY, GROSSMAN & HAGE, P.C. 175 Canal Street			DUDA, KATHLEEN	
			ART UNIT	PAPER NUMBER
			1756	4
Manchester, NH 03101			DATE MAILED: 10/07/2003	

Please find below and/or attached an Office communication concerning this application or proceeding.

<u> </u>	1.0 11 11				
	Application No.	Applicant(s)			
Office Action Summany	10/084,848	KIDO, SHUSAKU			
Office Action Summary	Examiner	Art Unit			
The MAIL INC DATE of this communication on	Kathleen Duda	1756			
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status					
1) Responsive to communication(s) filed on	·				
2a) ☐ This action is FINAL . 2b) ☑ TI	nis action is non-final.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims	Expanto quayro, 1000 o.b.	., , , , , , , , , , , , , , , , , , ,			
4) Claim(s) 1-17 is/are pending in the applicatio	n.				
4a) Of the above claim(s) is/are withdrawn from consideration.					
5) Claim(s) is/are allowed.					
6)⊠ Claim(s) <u>1-17</u> is/are rejected.					
7) Claim(s) is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.					
Application Papers					
9) The specification is objected to by the Examiner.					
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.					
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).					
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.					
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.					
Priority under 35 U.S.C. §§ 119 and 120					
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:					
1. Certified copies of the priority documents have been received.					
2. Certified copies of the priority documents have been received in Application No					
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 					
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).					
a) ☐ The translation of the foreign language provisional application has been received. 15)☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.					
Attachment(s)					
1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s) 3	5) Notice of Inform	nary (PTO-413) Paper No(s) nal Patent Application (PTO-152)			
U.S. Patent and Trademark Office PTO-326 (Rev. 04-01) Office Ac	ction Summary	Part of Paper No. 4			



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DETAILED ACTION

Information Disclosure Statement

1. The Japanese documents listed in the IDS filed on February 25, 2002, have been considered as far as the discussion provided in the specification.

Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
 The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 3. Claims 1-17 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 1, line 6 recites ,making one pattern "broader" then another which is not clear what the scope of the language is.

Claim 2, recites "said resist pattern" which is unclear as to what step in the previous claim is refers to.

Claim Rejections - 35 USC § 103

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject



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matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

5. Claims 1-17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matsuda (US Patent 6,037,245).

Matsuda teaches a process of forming a pattern in a semiconductor device fabrication process. Figures 5A-5F and column 12, line 60 to column 13, line 45, teach the process. A first layer of photoresist is applied 84, followed by a second layer of photoresist 86. The top layer of photoresist is exposed through a mask and developed to form a pattern. Several layers of photoresist patterns are formed until the lower structure to be processed is exposed. It is taught that the lower lying patterns are larger than the overlying layers.

Therefore, it would have been obvious to one of ordinary skill in the art to have formed a multiplayer photoresist structure whereby the lower layer has a larger pattern than the overlying photoresist patterns because Matsuda teaches that such a pattern is useful in the formation of semiconductor devices.

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Conclusion

6. Any inquiry concerning this communication should be directed to Examiner K. Duda at (703) 308-2292. Official FAX communications should be sent to (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application should be directed to the receptionist at (703) 308-0661.

Kathleen Duda Primary Examiner Art Unit 1756